SEQUENCE LISTING

- <120> METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE
 PROGRESSION
- <130> UCSF-020/02US
- <140> Not Yet Available
- <141> 2001-01-08
- <150> US 09/156,316
- <151> 1998-09-18
- <150> US 60/060,688
- <151> 1997-09-22
- <160> 46
- <170> PatentIn Ver. 2.1
- <210> 1
- <211> 802
- <212> PRT
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- Arg Ile Ala Ser Leu Leu His Arg Lys Ser Ala Lys Gln Cys Lys Ala
- Arg Trp Tyr Glu Trp Leu Asp Pro Ser Ile Lys Lys Thr Glu Trp Ser 50 60
- Arg Glu Glu Glu Lys Leu Leu His Leu Ala Lys Leu Met Pro Thr
 65 70 75 80
- Gln Trp Arg Thr Ile Ala Pro Ile Ile Gly Arg Thr Ala Ala Gln Cys 85 90 95
- Leu Glu His Tyr Glu Phe Leu Leu Asp Lys Ala Ala Gln Arg Asp Asn 100 105 110
- Glu Glu Glu Thr Thr Asp Asp Pro Arg Lys Leu Lys Pro Gly Glu Ile 115 120 125
- Asp Pro Asn Pro Glu Thr Lys Pro Ala Arg Pro Asp Pro Ile Asp Met 130 135 140
- Asp Glu Asp Glu Leu Glu Met Leu Ser Glu Ala Arg Ala Arg Leu Ala

145 150 155 160

Asn Thr Gln Gly Lys Lys Ala Lys Arg Lys Ala Arg Glu Lys Gln Leu

Glu Glu Ala Arg Arg Leu Ala Ala Leu Gln Lys Arg Arg Glu Leu Arg 180 185 190

Ala Ala Gly Ile Glu Ile Gln Lys Lys Arg Lys Arg Lys Arg Gly Val

Asp Tyr Asn Ala Glu Ile Pro Phe Glu Lys Lys Pro Ala Leu Gly Phe 210 220

Tyr Asp Thr Ser Glu Glu Asn Tyr Gln Ala Leu Asp Ala Asp Phe Arg 225 230 235 240

Lys Leu Arg Gln Gln Asp Leu Asp Gly Glu Leu Arg Ser Glu Lys Glu 245 250 255

Gly Arg Asp Lys Lys Asp Lys Gln His Leu Lys Arg Lys Lys Glu $260 \hspace{1cm} 265 \hspace{1cm} 270 \hspace{1cm}$

Ser Asp Leu Pro Ser Ala Ile Leu Gln Thr Ser Gly Val Ser Glu Phe 275 280 285

Thr Lys Lys Arg Ser Lys Leu Val Leu Pro Ala Pro Gln Ile Ser Asp 290 295 300

Ala Glu Leu Gln Glu Val Val Lys Val Gly Gln Ala Ser Glu Ile Ala 305 310 315 320

Arg Gln Thr Ala Glu Glu Ser Gly Ile Thr Asn Ser Ala Ser Ser Thr 325 330 335

Leu Leu Ser Glu Tyr Asn Val Thr Asn Asn Ser Val Ala Leu Arg Thr
340 350

Pro Arg Thr Pro Ala Ser Gln Asp Arg Ile Leu Gln Glu Ala Gln Asn 355 360 365

Leu Met Ala Leu Thr Asn Val Asp Thr Pro Leu Lys Gly Gly Leu Asn 370 375 380

Thr Pro Leu His Glu Ser Asp Phe Ser Gly Val Thr Pro Gln Arg Gln 385 390 395 400

Val Val Gln Thr Pro Asn Thr Val Leu Ser Thr Pro Phe Arg Thr Pro 405 410 415

Ser Asn Gly Ala Glu Gly Leu Thr Pro Arg Ser Gly Thr Thr Pro Lys
420 425 430

Pro Val Ile Asn Ser Thr Pro Gly Arg Thr Pro Leu Arg Asp Lys Leu 435 440 445

Asn Ile Asn Pro Glu Asp Gly Met Ala Asp Tyr Ser Asp Pro Ser Tyr

450 455 460

Val 465	Lys	Gln	Met	Glu	Arg 470	Glu	Ser	Arg	Glu	His 475	Leu	Arg	Leu	Gly	Leu 480
Leu	Gly	Leu	Pro	Ala 485	Pro	Lys	Asn	Asp	Phe 490	Glu	Ile	Val	Leu	Pro 495	Glu
Asn	Ala	Glu	Lys 500	Glu	Leu	Glu	Glu	Arg 505	Glu	Ile	Asp	Asp	Thr 510	Tyr	Ile
Glu	Asp	Ala 515	Ala	Asp	Val	Asp	Ala 520	Arg	Lys	Gln	Ala	Ile 525	Arg	Asp	Ala
Glu	Arg 530	Val	Lys	Glu	Met	Lys 535	Arg	Met	His	Lys	Ala 540	Val	Gln	Lys	Asp
Leu 545	Pro	Arg	Pro	Ser	Glu 550	Val	Asn	Thr	Glu	Ile 555	Leu	Arg	Pro	Leu	Asn 560
Val	Glu	Pro	Pro	Leu 565	Thr	Asp	Leu	Gln	Lys 570	Ser	Glu	Glu	Leu	Ile 575	Lys
Lys	Glu	Met	Ile 580	Thr	Met	Leu	His	Tyr 585	Asp	Leu	Leu	His	His 590	Pro	Tyr
Glu	Pro	Ser 595	Gly	Asn	Lys	Lys	Gly 600	Lys	Thr	Val	Gly	Phe 605	Gly	Thr	Asn
Asn	Ser 610	Glu	His	Ile	Thr	Tyr 615	Leu	Glu	His	Asn	Pro 620	Tyr	Glu	Lys	Phe
Ser 625	Lys	Glu	Glu	Leu	Lys 630	Lys	Ala	Gln	Asp	Val 635	Leu	Val	Gln	Glu	Met 640
Glu	Val	Val	Lys	Gln 645	Gly	Met	Ser	His	Gly 650	Glu	Leu	Ser	Ser	Glu 655	Ala
Tyr	Asn	Gln	Val 660	Trp	Glu	Glu	Cys	Tyr 665	Ser	Gln	Val	Leu	Tyr 670	Leu	Pro
Gly	Gln	Ser 675	Arg	Tyr	Thr	Arg	Ala 680	Asn	Leu	Ala	Ser	Lys 685	Lys	Asp	Arg
Ile	Glu 690	Ser	Leu	Glu	Lys	Arg 695	Leu	Glu	Ile	Asn	Arg 700	Gly	His	Met	Thr
Thr 705	Glu	Ala	Lys	Arg	Ala 710	Ala	Lys	Met	Glu	Lys 715	Lys	Met	Lys	Ile	Leu 720
Leu	Gly	Gly	Tyr	Gln 725	Ser	Arg	Ala	Met	Gly 730	Leu	Met	Lys	Gln	Leu 735	Asn
Asp	Leu	Trp	Asp 740	Gln	Ile	Glu	Gln	Ala 745	His	Leu	Glu	Leu	Arg 750	Thr	Phe
Glu	Glu	Leu	Lys	Lys	His	Glu	Asp	Ser	Ala	Ile	Pro	Arg	Arg	Leu	Glu

755 760 765

Cys Leu Lys Glu Asp Val Gln Arg Gln Gln Glu Arg Glu Lys Glu Leu 770 775 780

Gln His Arg Tyr Ala Asp Leu Leu Leu Glu Lys Glu Thr Leu Lys Ser 785 790 795 800

Lys Phe

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Leu Asp Pro 50

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<211> 51

<212> PRT

<213> Schizosaccharomyces pombe

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35 40 45

Ile Asp Pro 50

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<211> 50

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<213> Homo sapiens

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10

15

1 5 10 15

Gly Val Thr Pro Gln Arg Gln Val Val Gln Thr Pro Asn Thr Val Leu 20 25 30

Ser Thr Pro Phe Arg Thr Pro Ser Asn Gly Ala Glu Gly Leu Thr Pro 35 40 45

Arg Ser Gly Thr Thr Pro Lys Pro Val Ile Asn Ser Thr Pro Gly Arg 50 55 60

Thr Pro Leu Arg Asp Lys Leu Asn Ile Asn Pro Glu Asp Gly Met Ala 65 70 75 80

Asp Tyr Ser Asp Pro Ser Tyr Val Lys Gln Met Glu Arg Glu Ser Arg 85 90 95

Glu His Leu Arg Leu Gly Leu Leu Gly Leu Pro Ala Pro Lys Asn Asp 100 105 110

Phe Glu Ile Val Leu Pro Glu Asn Ala Glu Lys 115 120

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<211> 107

<212> PRT

<213> Schizosaccharomyces pombe

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Ser Val Thr Ile Glu Val Arg Asn Gln Leu Met Asn Arg Glu Gln Ser 1 5 10 15

Ser Leu Leu Gly Gln Glu Ser Ile Pro Leu Gln Pro Gly Gly Thr Gly 20 25 30

Tyr Thr Gly Val Thr Pro Ser His Ala Ala Asn Gly Ser Ala Leu Ala 35 40 45

Ala Pro Gln Ala Thr Pro Phe Arg Thr Pro Arg Asp Thr Phe Ser Ile 50 55 60

Asn Ala Ala Glu Arg Ala Gly Arg Leu Ala Ser Glu Arg Glu Asn 65 70 75 80

Lys Ile Arg Leu Lys Ala Leu Arg Glu Leu Leu Ala Lys Leu Pro Lys
85 90 95

Pro Lys Asn Asp Tyr Glu Leu Met Glu Pro Arg

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<211> 119

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Pro Val Cys Ser Gln Lys Val Val Thr Thr Pro Leu His Arg Asp 35 40 45

Lys Thr Pro Leu His Gln Lys His Ala Ala Phe Val Thr Pro Asp Gln 50 55 60

Lys Tyr Ser Met Asp Asn Thr Pro His Thr Pro Thr Pro Phe Lys Asn 65 70 75 80

Ala Lys Tyr Gly Pro Leu Lys Pro Leu Pro Gln Thr Pro His Leu Glu
85 90 95

Glu Asp Leu Lys Glu Val Leu Arg Ser Glu Ala Gly Ile Glu Leu Ile 100 105 110

Ile Glu Asp Asp Ile Arg Pro 115

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<211> 123

<212> PRT

<213> Homo sapiens

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Glu Leu Arg Asp Gly Ser Leu Asn Asp Gly Gly Asn Met Ala Leu Lys 20 25 30

His Thr Pro Leu Lys Thr Leu Pro Phe Ser Pro Ser Gln Phe Phe Asn 35 40 45

Thr Cys Pro Gly Asn Glu Gln Leu Asn Ile Glu Asn Pro Ser Phe Thr
50 60

Ser Thr Pro Ile Cys Gly Gln Lys Ala Leu Ile Thr Thr Pro Leu His 65 70 75 80

Lys Glu Thr Thr Pro Lys Asp Gln Lys Glu Asn Val Gly Phe Arg Thr
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Pro Thr Ile Arg Arg Ser Ile Leu Gly Thr Pro Arg Thr Pro Thr Pro
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Phe Lys Asn Ala Leu Ala Ala Gln Glu Lys Lys 115 120

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aggggggcgt atggaggaat accgaggatg aaattctgaa agcagcggta atgaaatatg 180
ggaaaaatca gtggtctagg attgcctcat tgctgcatag aaaatcagca aagcagtgca 240
aagccagatg gtatgaatgg ctggatccaa gcattaagaa gacagaatgg tccagagaag 300
aagaggaaaa actettgeac ttggccaagt tgatgccaac tcagtggagg accattgctc 360
caatcattgg aagaacagcg gcccagtgct tagaacacta tgaatttctt ctggataaag 420
ctgcccaaag agacaatgaa gaggaaacaa cagatgatcc acgaaaactt aaacctggag 480
aaatagatee aaateeagaa acaaaaceag egeggeetga teeaattgat atggatgagg 540
atgaacttga gatgctttct gaagccagag cccgcttggc taatactcag ggaaagaagg 600
ccaagaggaa agcaagaga aaacaattgg aagaagcaag acgtcttgct gccctccaaa 660
gagttgatta taatgccgaa atcccatttg aaaaaaagcc tgcccttggt ttttatgata 780
cttctgagga aaactaccaa gctcttgacg caqatttcag qaaattaaqa caacaggatc 840
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aatttactaa aaagagaagc aaactagtac ttcctgcccc tcagatttca gatgcagaac 1020
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agaacctcat ggccctcacc aatgtggaca ccccattgaa aggtggactt aataccccat 1260
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cagttetete tactecatte aggacteett etaatggage tgaagggetg acteeeegga 1380
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ccaataattc agagcacatt acctatctgg aacataatcc ttatgaaaag ttctccaaag 1980
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tgagccatgg agagctctca agtgaagctt ataaccaggt gtgggaagaa tgctacagtc 2100
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gatatgctga tttgctgctg gagaaagaga ctttaaagtc aaaattctga agtacagttt 2520
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